

INDEX TO VOLUME 1

RESEARCH-EXPOSITORY PAPERS

- Aschbacher, Michael, *An introduction to the classification of finite simple groups*, 39
- Auslander, L. and Tolimieri, R., *Is computing with the finite Fourier transform pure or applied mathematics*, 847
- Brauer, Richard, *Blocks of characters and structure of finite groups*, 21
- Brauer, Richard D. *See* Feit, Walter
- Cohen, Joel E., *Ergodic theorems in demography*, 275
- Curtis, Charles W., *Representations of finite groups of Lie type*, 721
- Ekeland, Ivar, *Nonconvex minimization problems*, 443
- Feit, Walter, *Richard D. Brauer*, 1
- Fowler, D. H., *Ratio in early Greek mathematics*, 807
- Gorenstein, Daniel. *The classification of finite simple groups I. Simple groups and local analysis*, 43
- Griffiths, Phillip A., *Complex analysis and algebraic geometry*, 595
- Knuth, Donald E., *Mathematical typography*, 337
- Orlik, Peter, *Singularities and group actions*, 703
- Stanley, Richard P., *Invariants of finite groups and their applications to combinatorics*, 475
- Tolimieri, R. *See* Auslander, L.
- Wells, R. O., Jr., *Complex manifolds and mathematical physics*, 296

RESEARCH ANNOUNCEMENTS

- Agler, Jim, *An invariant subspace theorem*, 425
- Alvis, Dean, *The duality operation in the character ring of a finite Chevalley group*, 907
- Amitsur, S. A., Rowen, L. H. and Tignol, J. P., *Division algebras of degree 4 and 8*, 691
- Berger, M. S. and Church, P. T., *On the complete integrability of nonlinear partial differential equations*, 698
- Bichteler, Klaus, *Stochastic integrators*, 761
- Block, Richard E., *Classification of the irreducible representations of $\mathfrak{sl}(2, \mathbb{C})$* , 247
- Block, Richard E. and Wilson, Robert Lee, *The restricted simple Lie algebras with a two-dimensional Cartan subalgebra*, 682
- Cappell, Sylvain E. and Shaneson, Julius L., *Linear algebra and topology*, 685
- Cappell, Sylvain E. and Shaneson, Julius L., *Nonlinear similarity of matrices*, 899
- do Carmo, M. and Peng, C. K., *Stable complete minimal surfaces in \mathbb{R}^3 are planes*, 903
- César de Sá, Eugénia and Rourke, Colin, *The homotopy type of homeomorphisms groups of 3-manifolds*, 251
- Chacon, R. V. and Jamison, Benton, *Traversal times of Markov processes*, 583
- Charney, Ruth M., *Homology stability of GL_n of a Dedekind domain*, 428
- Church, P. T. *See* Berger, M. S.
- Connes, Alain and Moscovici, Henri, *The L^2 -index theorem for homogeneous spaces*, 688
- Córdoba, Antonio, *Maximal functions: A proof of a conjecture of A. Zygmund*, 255
- Fein, Burton, Schacher, Murray and Sonn, Jack, *Brauer groups of rational function fields*, 766
- Ferguson, H. R. P. and Forcade, R. W., *Generalization of the Euclidean algorithm for real numbers to all dimensions higher than two*, 912
- Forcade, R. W. *See* Ferguson, H. R. P.
- Fritsch, Rudolf and Latch, Dana May, *Homotopy inverses for nerve*, 258
- Grunewald, Fritz J. and Segal, Daniel, *The solubility of certain decision problems in arithmetic and algebra*, 915
- Grunewald, F. J., Pickel, P. F. and Segal, D., *Finiteness theorems for polycyclic groups*, 575
- Hardt, Robert and Simon, Leon, *Boundary regularity and embedded solutions for the oriented plateau problem*, 263
- Heath-Brown, D. R. and Iwaniec, H., *On the difference between consecutive primes*, 758
- Iwaniec, H. *See* Heath-Brown, G. R.
- Jamison, Benton. *See* Chacon, R. V.